## Abstract

A method of optimizing the compression efficiency in a packet data communication where a compression history of previous packets is used for the compression of a current packet, the method including: updating the compression history selectively, wherein the selection is performed based on a first algorithm whether a packet shall be compressed, and on a second algorithm whether a compressed packet shall be used for an update of the compression history. The compressor can be enabled to safely infer a subset of the context at the decompressor by simply monitoring the Transmission Control Protocol acknowledgment signaling, wherein that subset is used as a context for compression.